



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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6-7-04

Application Serial No. .... 09/731,481  
Filing Date ..... December 06, 2000  
Confirmation No. .... 1300  
Inventorship ..... Liu, et al.  
Applicant ..... Microsoft Corporation  
Group Art Unit ..... 2623  
Examiner ..... Bhatnagar, Anand P.  
Attorney's Docket No. .... MS1-684US  
Title: System and Method Providing Improved Head Motion Estimations for Animation

INFORMATION DISCLOSURE STATEMENT

References – See Attached Form PTO-1449

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Technology Center 2600

To: Commissioner for Patents  
PO Box 1450  
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From: Brian G. Hart (Tel. 509-324-9256; Fax 509-323-8979)  
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The attached form PTO-1449 is submitted in compliance with Applicant's duty of disclosure under 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

The Commissioner is hereby authorized to charge payment of fees or credit overpayments to Deposit Account No. 12-0769 as set forth in 37 CFR §1.17(p).

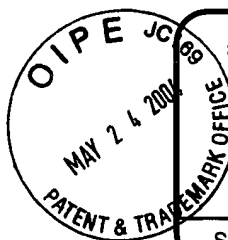
Dated: 5/21/04

By: Brian Hart  
Brian G. Hart  
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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	09/731,481
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<b>Filing Date</b>	12-06-2000
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First Named Inventor	Liu
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Group Art Unit	2623
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Examiner Name	Bhatnagar, A.
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Attorney Docket Number	MS1-684US
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## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

Date Considered

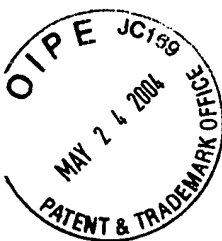
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	09/731,481
		Filing Date	12-06-2000 MAY 28 2004
		First Named Inventor	Liu
		Group Art Unit	2623 Technology Center 2600
		Examiner Name	Bhatnagar, A.
		Attorney Docket Number	MS1-684US
Sheet	2	of	3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PEI et al., "Global Motion Estimation in Model-Based Image Coding by Tracking Three-Dimensional Contour Feature Points", IEEE, 1051-8215/98, 1998, pages 181-190.	
		PIGHIN et al., "Resynthesizing Facial Animation Through 3-D Model-Based Tracking", IEEE, Inspec Accession Number 6371194, 1999, pages 1-8.	
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		SKARIA et al., "Modeling Subdivision Control Meshes for Creating Cartoon Faces", IEEE 0-7695-0853-7/01, 2001, pages 216-225.	
		PARKE, "Computer Graphic Models for the Human Face", IEEE, CH515-6/79/0000-0724, 1979, pages 724-727.	
		TERZOPOULOS et al., "Analysis of Facial Images Using Physical and Anatomical Models", IEEE, CH2934-8/90/0000/072, 1990, pages 727-732.	
		DiPAOLA, "FaceSpace: a Facial Spatial-Domain Toolkit", IEEE, 1093-9547, pages 1-5.	
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		BLANZ et al., "Face Recognition Based on Fitting a 3D Morphable Model", IEEE, 0162-8828/03, 2003, pages 1063-1074.	
		ZHENG et al., "3D Models from Contours: Further Identification of Unexposed Areas", IEEE, 0-8186, 1992, pages 733-741.	

Examiner Signature		Date Considered	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	09/731,481
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				First Named Inventor	Liu
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Sheet	3	of	3		

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		VETTER et al., "Linear Object Classes and Image Synthesis From a Single Example Image", IEEE Transactions on Pattern Analysis and Machine Intelligence vol. 19, n 7, 0162-8828/97, July 1997, pages 733-741.	
		DARIUSH et al., "Spatiotemporal Analysis of Face Profiles: Detection, Segmentation and Registration", IEEE, Inspec Accession Number 5920418, pages 248-253.	
		AKIMOTO et al., "Automatic Creation of 3D Facial Models", IEEE Computer Graphics & Applications, 0272-16/93, 1993, pages 16-22.	
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